AN ROINN OIDEACHAIS
(Department of Education).

BRAINNSE AN MHEÁN-OIDEACHAIS
(Secondary Education Branch).

INTERMEDIATE CERTIFICATE EXAMINATION, 1934.

ELEMENTARY MATHEMATICS (Arithmetic).
FOR GIRLS ONLY.

FRIDAY, 15th JUNE.—MORNING, 10 A.M. TO 12 NOON.

Six questions may be answered.

Mathematical Tables may be obtained from the Superintendent.

1. Find the simple interest, to the nearest penny, on £487 10s. 4d. for 17 years at $1\frac{1}{2}\%$ per annum.

[16 marks.]

2. Fill in the blanks in the following bill. You need not copy the bill into your answer-book, but give your answers under the headings (*a*), (*b*), (*c*), (*d*).

		s.	d.
(*a*)	8 loaves at each	2	10
(*b*)	$\frac{1}{4}$-stone oatmeal at 3s. 10d. per stone ..		
(*c*)	lbs. butter at 1s. 4d. per lb. ..	3	4
(*d*)	lbs. rashers at 1s. 5d. per lb. ..		
	TOTAL .. .	9	$11\frac{1}{2}$

[16 marks.]

3. Find what percentage $13\frac{1}{2}$ times £84 7s. 6d. is of 27 times £67 10s. 0d.

[16 marks.]

4. A poultry-run consists of a rectangular plot of ground, length 44 yards and area $\frac{1}{8}$ acre. It is enclosed by wire netting 10 feet high, attached to vertical poles along each side. Find the cost of the netting at $1\frac{1}{2}$d. per square foot.

[16 marks.]

5. Draw a graph to show the percentage mark obtained by any candidate in an examination for which the maximum mark is 400. Read from your graph the percentage mark obtained by a candidate who got 285 marks, and the mark obtained by another who scored 63%.

[16 marks.]

6. How many times can pieces of ribbon each $\frac{1}{16}$ yard long be cut from a roll 30 metres long? What length of ribbon is left over?

[17 marks.]

7. Note the day and date on your examination paper. On what day of the week will next Christmas day fall? What is the next year when it will again fall on the same day?

[17 marks.]

8. A square is inscribed in a circle. Express to two decimal places the ratio of:

(i) the area of the square to the area of the circle.

(ii) the perimeter of the square to the circumference of the circle.

[17 marks.]

9. A housekeeper received the following amounts during a year:

	£ s. d.		£. s. d.		£. s. d.
Jan. ..	18 17 4	May ..	18 11 3	Sept. ..	17 16 8
Feb. ..	17 6 10	June ..	14 8 11	Oct. ..	19 10 5
Mar. ..	19 12 9	July ..	20 6 6	Nov. ..	18 3 10
April ..	18 14 6	Aug. ..	18 17 2	Dec. ..	19 15 2

If she saved 2s. 7½d. in each £1, how much did she save in the year?

[17 marks.]